Panoramic Stereoviewer

[redacted] STATINTL

Progress Report

Covering the period from July 27 to September 20, 1963

Project Status - Based on our present schedule for completion the instrument should be ready for final acceptance inspection by 10/21/63.

The following is a summary of the progress made during this reporting period.

1. Glass Drums - Problems were encountered by our vendor in grinding the inside surface of the drums which has required a tooling change and a modification in grinding procedures. One of the four drums was broken during the grinding operation. The first pair of drums are now scheduled for shipment on 10/1/63. They were originally scheduled for completion on 8/15/63.

2. Electrical Compartments and Counter Housing - Modification of the sheet metal housing was completed to include electrical compartments and counter housings. Wiring of the electrical panels is 80% completed. All counters have been mounted in the housing and mechanically and electrically connected into the system.

3. Motor Drive - The installation of the motor drive for the film spools was completed for one side of the instrument. A preliminary check of the motor controlers on the instrument indicated that the film speed will be continuously variable from between 0.5 to 1 inch per second to 300 feet per minute. There is no apparent film slippage on the drums when motor driving the film - either during acceleration or deceleration. A static tension of approximately six pounds is maintained on the film.

4. Manual Drives - Installation of the manual drives was completed. An operational check of the drives indicated that the use of knurled control knobs was unsatisfactory. The knobs are presently being replaced with hand wheels. It has also been found that when manually moving the film in "X" by driving the drums that the film tends to slip on the drums. Two solutions to this problem are presently under consideration. One solution is to increase the static tension on the film and the other is to add a solenoid activated pressure roller to contact the inboard edge of the film during the manual drive.

5. Illumination and Optical Condensing System - Mounts for anamorphic lenses to be added to the condensing system have been completed and are presently being installed. A preliminary check indicates that they will correct the banding problem satisfactorily.

6. Optical System - The optical support arms were reinforced to reduce the transmission of vibrations through the optical system. No evaluation of the optical system for viewing film in stereo has been made due to mechanical and electrical work on the instrument.

Total Expenditures as of 9/20/63

Engineering..... [redacted] STATINTL

Manufacturing.....

Material.....

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